



CENTRAL UTAH WATER
CONSERVANCY DISTRICT

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October 27, 2017

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Subject: Water Year 2017 Administration of Central Utah Project, Bonneville Unit, Utah Lake / Provo River Storage Exchanges under CUP Water Right Nos. A40523, A36639, A37093, E398, E4319 and Central Utah Water Conservancy District Water Right Nos. E3100 and E3101

Dear Ross:

The purpose of this letter is to provide a report of CUP trans-basin imports, reservoir releases, and return flow credits claimed. We have received preliminary information needed for this report from the Provo River Commissioner and the Spanish Fork River Commissioner. In consultation with the commissioners, we are estimating some of the information at this time. Once this information has been finalized and, if needed, we will update this report and resubmit it to you after the end of the Water Year.

In early 2017, it was evident that the level of Utah Lake would not cross the conversion line, or a lowered conversion line. Therefore, on March 28, 2017, a request was sent to your office requesting that exchanges E4319, E3100 and E3101 not be used to lower the Utah Lake conversion line in accordance with the Utah Lake Distribution Plan and that those exchanges be used for direct exchange. Furthermore, the District also requested to not use E398 until E4319, E3100, and E3101 had been exhausted.

Hydrologic conditions changed and spring runoff exceeded earlier expectations. The District received a letter from Kent Jones dated June 7, 2017, requesting that the District revise the earlier request due to changing conditions. On July 20, 2017, a revised request was sent to you requesting that the conversion line be lowered using Exchanges E4319, E3100, and E3101. The elevation of Utah Lake was sufficient to cross the lowered conversion line. Therefore, CUP and other system storage would be converted to priority storage due to the level of Utah Lake reaching the lowered conversion line.

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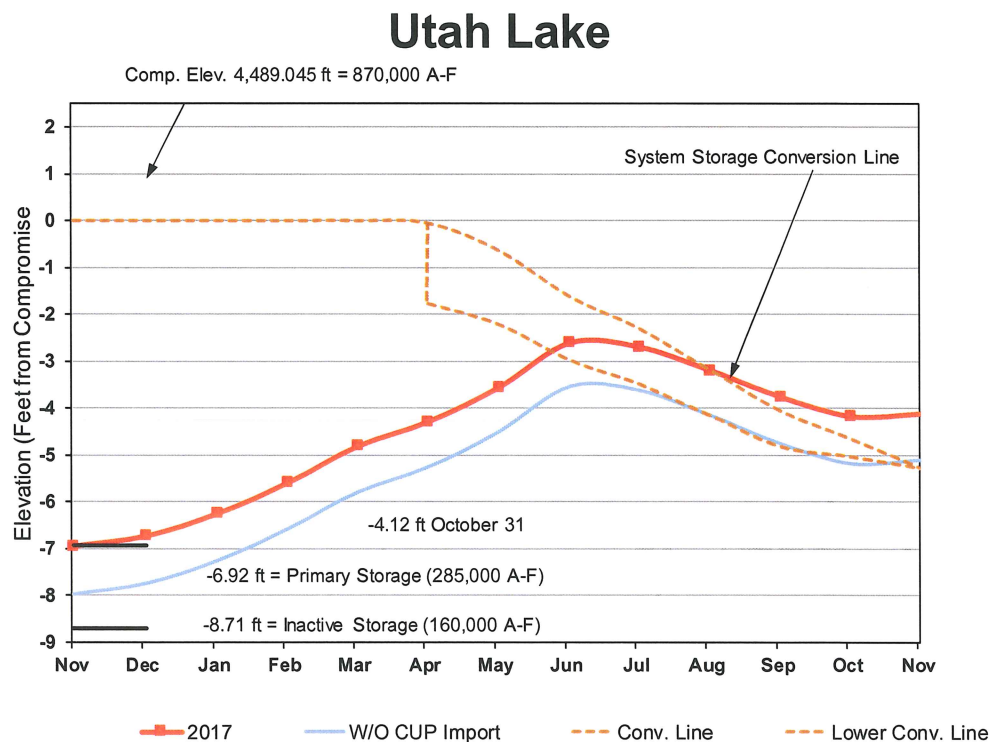
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WATER RIGHTS
SALT LAKE

SCANNED RJ

Sources of CUP water in Utah Lake during water year 2017 (November 1, 2016 to October 31, 2017):

- 1) We claim that 72,898 acre-feet of import water, under application A36639, was carried over from water year 2016, subject to incremental evaporation, in Utah Lake.
- 2) We claim that water has been conveyed directly from Strawberry Reservoir to Utah Lake under A36639. A total of 15,207 acre-feet was conveyed to and stored in Utah Lake from November 1, 2016, through October 31, 2017. We are estimating the volume conveyed for the last few days of October. We understand that this will be adjusted for incremental evaporation, even in current year accounting. Adjustments for evaporation will be summarized later in this document.
- 3) We claim return flows from Strawberry Reservoir CUP irrigation deliveries made in South Utah County during water year 2016 under A36639 in the amount of 5,194 acre-feet. The amount of CUP water, delivered for irrigation use in South Utah County for October 2017 has not been completely reported to us by the Spanish Fork River Commissioner. When these values are reported to us, we will then claim that 35 percent of this amount, subject to incremental evaporation, be credited to CUP water in Utah Lake under A37093.



Please see the following tables showing our calculations for the above including calculations for incremental evaporation, which we estimate in the amount of 11,580 acre-feet. Please note that for simplification, we have assumed return flows reach the lake the same month the water is delivered to agricultural lands. The total import water amount (carryover, direct, and return flow) claimed in Utah Lake, estimated for the end of the water year, and adjusted for incremental evaporation, is 81,619 acre-feet.

CUP Import Water in Utah Lake WY2017

	Stawberry Res.	Strawberry Res.	35 Percent		Total	Total	
	Direct	CUP Ag.	CUP Ag.	Less	CUP Direct and	CUP Utah Lake	
	CUP Release to	Delivery to	Return Flow	Incremental	Return Flow	Storage	
	Utah Lake	S. Utah County	to Utah Lake	Evaporation	to Utah Lake		
Time Period	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	72,898 *	
Nov	1,411			-901	510	73,408	
Dec	1,240			-339	901	74,309	
Jan	1,240			-218	1,022	75,331	
Feb	1,120			-193	927	76,258	
Mar	1,265			-221	1,044	77,302	
Apr	1,235			-365	870	78,172	
May	1,324			-605	719	78,891	
Jun	994	589	206	-875	325	79,216	
Jul	1,080	5,687	1,990	-1,729	1,341	80,557	
Aug	1,019	7,311	2,559	-2,467	1,111	81,668	
Sep	1,502	1,253	439	-2,258	-317	81,351	
Oct ** Estimate	1,777			-1,409	368	81,719	
Total	15,207	14,840	5,194	-11,580	8,821		
* Carryover from WY2016 adjusted for incremental evaporation							

Incremental Evaporation from CUP Import Water in Utah Lake WY2017

		EOM	EOM			
		Surface Area	Surface Area	Incremental	Incremental	
	EOM	w/ CUP	w/o CUP	Increase in	Evaporation	Incremental
	Elevation	Import Water	Import Water	Surface Area	kc=1.35	Evaporation
Time Period	feet bel. Comp.	acres	acres	acres	inches	acre-feet
Nov	-6.73	74,247	70,385	3,862	2.80	901
Dec	-6.25	75,937	72,371	3,566	1.14	339
Jan	-5.59	78,199	74,798	3,401	0.77	218
Feb	-4.81	80,792	77,579	3,214	0.72	193
Mar	-4.29	82,479	79,356	3,122	0.85	221
Apr	-3.55	84,823	81,840	2,983	1.47	365
May	-2.61	87,424	84,902	2,521	2.88	605
Jun	-2.70	87,207	84,600	2,607	4.03	876
Jul	-3.20	85,912	82,914	2,998	6.92	1,729
Aug	-3.77	84,132	80,958	3,174	9.33	2,467
Sep	-4.18	82,831	79,567	3,264	8.30	2,258
Oct ** Estimate	-4.10	83,086	79,828	3,258	5.19	1,409

Ross Hansen, P.E.

October 27, 2017

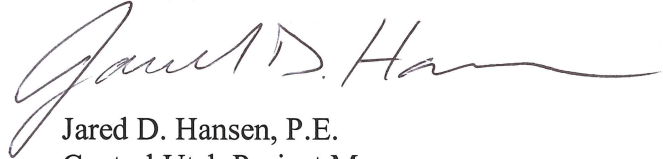
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Water Available for CUP in Utah Lake

Category	acre-feet
Import from Water Year 2016	72,898
A36639 directly conveyed to Utah Lake for exchange under E398	15,207
A36639 return flow in south Utah County area for exchange under A37093 and E398	5,194
Less Incremental Evaporation Loss on the above	-11,580
Total CUP import water in Utah Lake available for Exchange	81,719
E4319	7,900
E3101	16,862
E3100	57,073
Total Available for Exchange under E4319, E3100, E3101	81,835
Amount remaining for Exchange under E4319, E3100, E3101	0
Total CUP import water in Utah Lake available for Exchange	81,719
CUP Import Water in Utah Lake Required for Provo River Storage Exchange	0
Total CUP import water in Utah Lake available for Exchange	81,719

When data for the water year is finalized, and if necessary, this report will be updated and resubmitted to you. Please contact me if you have any questions or need additional data.

Sincerely yours,



Jared D. Hansen, P.E.
Central Utah Project Manager

JDH:

cc: Kent Jones – State Engineer
Stan Roberts – Provo River Commissioner
John Mendenhall – Spanish Fork River Commissioner
John Larsen – Utah Lake/Jordan River Commissioner
Mike DeVries – Metropolitan Water District of Salt Lake and Sandy
Richard Bay – Jordan Valley Water Conservancy District
Keith Denos – Provo River Water Users Association
Wayne Pullan – U.S. Bureau of Reclamation
Rachel Musil – U.S. Bureau of Reclamation
Reed Murray – U.S. Department of Interior